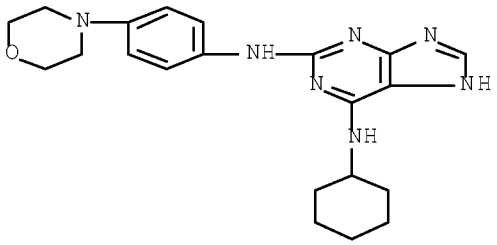
CONTENTS

INVENTOR SEARCH

=> d ibib abs hitstr l6 1-3

L6 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:726752 HCAPLUS Full-text
DOCUMENT NUMBER: 147:111976
TITLE: Reversine increases the plasticity of lineage-committed mammalian cells
AUTHOR(S): Chen, Shuibing; Takanashi, Shinichi; Zhang, Qisheng; Xiong, Wen; Zhu, Shoutian; Peters, Eric C.; Ding, Sheng; Schultz, Peter G.
CORPORATE SOURCE: Department of Chemistry and the Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2007), 104(25), 10482-10487
CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Previously, a small mol., reversine, was identified that reverses lineage-committed murine myoblasts to a more primitive multipotent state. Here, we show that reversine can increase the plasticity of C2C12 myoblasts at the single-cell level and that reversine-treated cells gain the ability to differentiate into osteoblasts and adipocytes under lineage-specific inducing conditions. Moreover, reversine is active in multiple cell types, including 3T3E1 osteoblasts and human primary skeletal myoblasts. Biochem. and cellular expts. suggest that reversine functions as a dual inhibitor of nonmuscle myosin II heavy chain and MEK1, and that both activities are required for reversine's effect. Inhibition of MEK1 and nonmuscle myosin II heavy chain results in altered cell cycle and changes in histone acetylation status, but other factors also may contribute to the activity of reversine, including activation of the PI3K signaling pathway.
IT 656820-32-5, Reversine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(reversine increases plasticity of lineage-committed mammalian cells)
RN 656820-32-5 HCAPLUS
CN 9H-Purine-2,6-diamine, N6-cyclohexyl-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

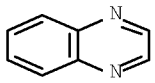
L6 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:451560 HCAPLUS Full-text
DOCUMENT NUMBER: 142:478415
TITLE: Compositions and methods for inducing cell dedifferentiation
INVENTOR(S): Chen, Shuibing; Ding, Sheng; Schultz, Peter G.
PATENT ASSIGNEE(S): The Scripps Research Institute, USA
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005047524	A2	20050526	WO 2004-US37686	20041110
WO 2005047524	A3	20051229		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20050176707	A1	20050811	US 2004-985645	20041110
EP 1682150	A2	20060726	EP 2004-800997	20041110
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
JP 2007510752	T	20070426	JP 2006-539866	20041110
US 20070254884	A1	20071101	US 2007-577191	20070227

PRIORITY APPLN. INFO.: US 2003-518947P P 20031110
WO 2004-US37686 W 20041110
OTHER SOURCE(S): MARPAT 142:478415
AB The present invention provides compns. and methods for dedifferentiating lineage committed mammalian cells.
IT 91-19-0D, Quinoxaline, derivs. 120-73-0D, Purine, derivs. 253-52-1D, Phthalazine, derivs. 253-82-7D, Quinazoline, derivs. 289-80-5D, Pyridazine, derivs.

289-95-2D, Pyrimidine, derivs. 290-37-9D, Pyrazine, derivs.
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(compns. and methods for inducing cell dedifferentiation)

RN 91-19-0 HCAPLUS
CN Quinoxaline (CA INDEX NAME)



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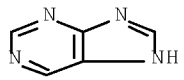
CN 9H-Purine (CA INDEX NAME)



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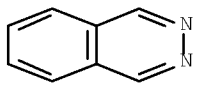
CN Phthalazine (CA INDEX NAME)



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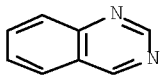

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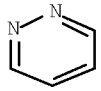

RN 289-95-2 HCAPLUS
CN Pyrimidine (CA INDEX NAME)

RN 290-37-9 HCAPLUS
CN Pyrazine (CA INDEX NAME)

IT 325167-28-0 325167-35-9 709609-12-1
852231-90-4 852231-92-6 852231-94-8
852231-96-0 852231-98-2 852232-01-0
852232-03-2 852232-05-4 852232-07-6
852232-11-2 852232-13-4
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(compns. and methods for inducing cell dedifferentiation)
RN 325167-28-0 HCAPLUS
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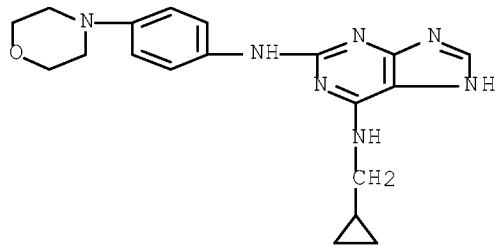

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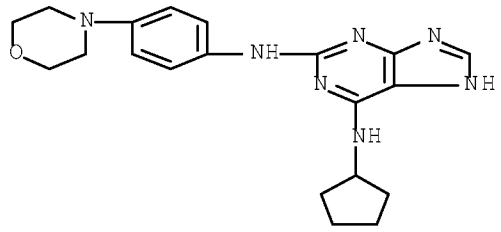
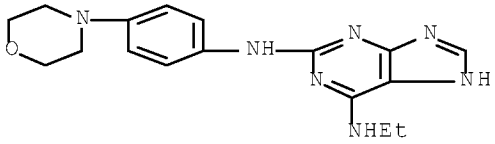


RN 709609-12-1 HCAPLUS
CN 9H-Purine-2,6-diamine, N6-ethyl-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX

NAME)



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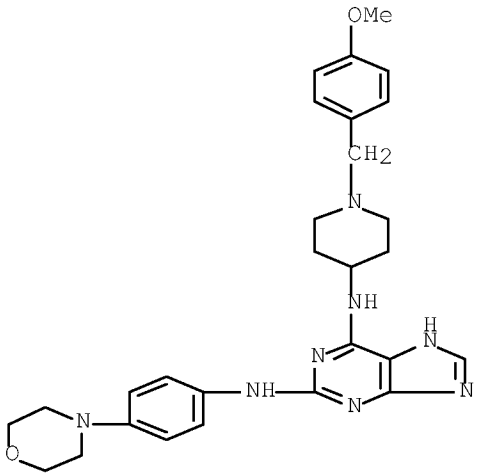
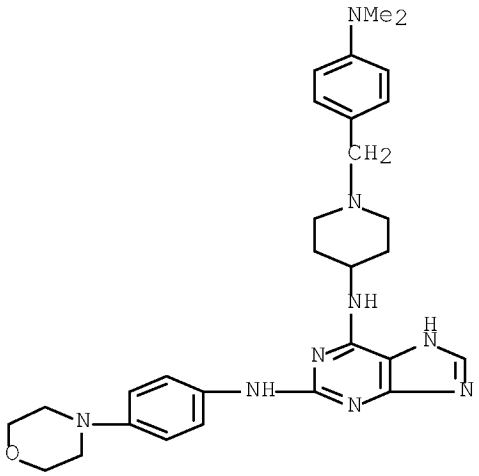


RN 852231-92-6 HCAPLUS
CN 9H-Purine-2,6-diamine, N6-[1-[[4-(dimethylamino)phenyl]methyl]-4-piperidinyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 852231-94-8 HCAPLUS

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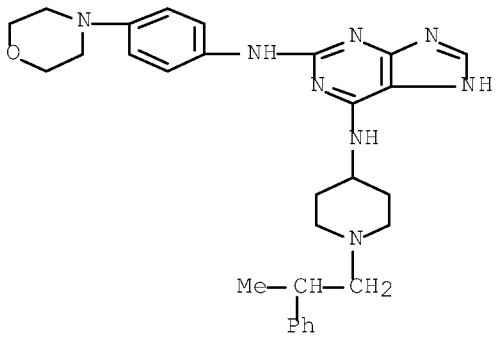
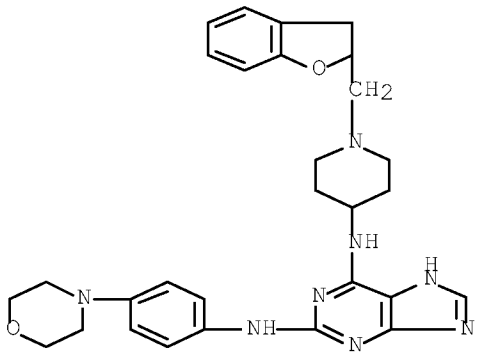


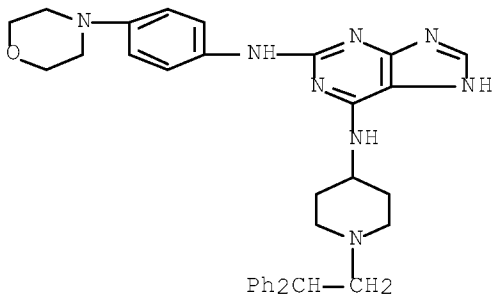
RN 852231-96-0 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-[1-[(2,3-dihydro-2-benzofuranyl)methyl]-4-piperidinyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 852231-98-2 HCAPLUS

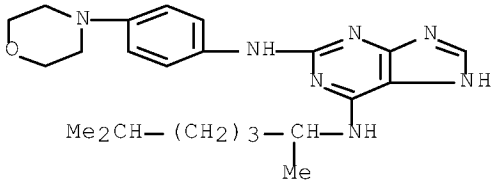
CN 9H-Purine-2,6-diamine, N6-[1-(2,2-diphenylethyl)-4-piperidinyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 852232-01-0 HCAPLUS

CN 9H-Purine-2,6-diamine, N6-(1,5-dimethylhexyl)-N2-[4-(4-morpholinyl)phenyl]-

(CA INDEX NAME)



RN 852232-03-2 HCAPLUS
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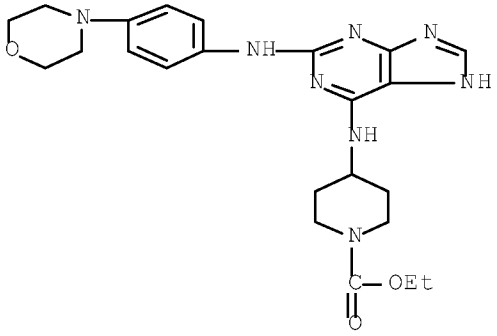
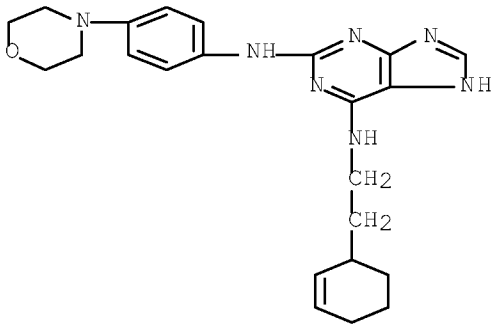


RN 852232-05-4 HCAPLUS
CN 9H-Purine-2,6-diamine, N6-[2-(2-cyclohexen-1-yl)ethyl]-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



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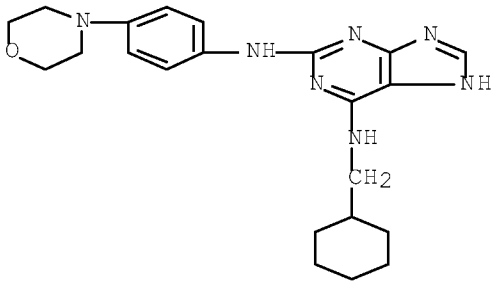

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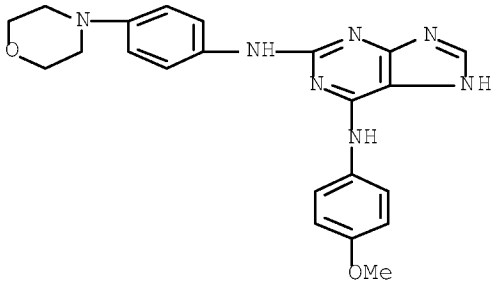

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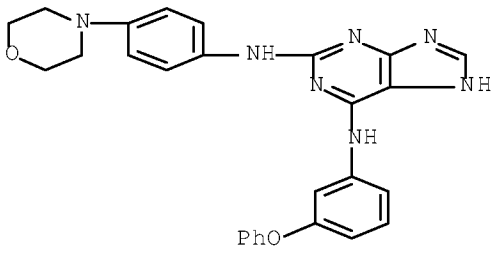
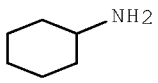
(CA INDEX NAME)



IT 108-91-8, Cyclohexylamine, reactions 1651-29-2,
2-Fluoro-6-chloropurine 2524-67-6, 4-Morpholinoaniline
RL: RCT (Reactant); RACT (Reactant or reagent)
(compns. and methods for inducing cell dedifferentiation)
RN 108-91-8 HCAPLUS
CN Cyclohexanamine (CA INDEX NAME)



RN 1651-29-2 HCAPLUS
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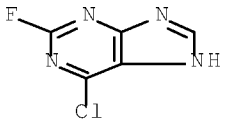

RN 2524-67-6 HCAPLUS
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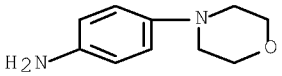

IT 852231-88-0P, 2-Fluoro-6-cyclohexylamino-purine
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(compns. and methods for inducing cell dedifferentiation)
RN 852231-88-0 HCAPLUS
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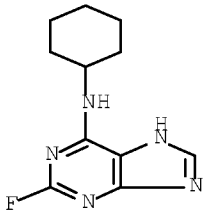

IT 656820-32-5P
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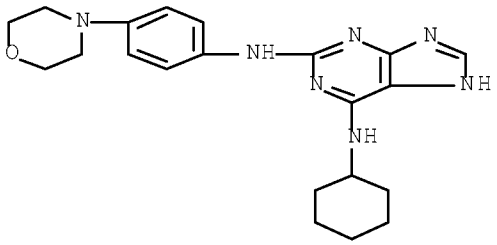
(compns. and methods for inducing cell dedifferentiation)
RN 656820-32-5 HCAPLUS
CN 9H-Purine-2,6-diamine, N6-cyclohexyl-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)

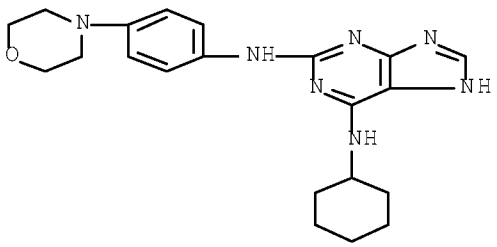


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:996204 HCAPLUS Full-text
DOCUMENT NUMBER: 140:160988
TITLE: Dedifferentiation of Lineage-Committed Cells by a Small Molecule
AUTHOR(S): Chen, Shuibing; Zhang, Qisheng; Wu, Xu; Schultz, Peter G.; Ding, Sheng
CORPORATE SOURCE: Department of Chemistry and the Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Journal of the American Chemical Society (2004), 126(2), 410-411
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Combinatorial libraries were screened for mols. that induce mouse myogenic lineage committed cells to dedifferentiate in vitro. A 2,6-disubstituted purine, reversine, was discovered that induces lineage reversal of C2C12 cells to become multipotent progenitor cells which can redifferentiate into osteoblasts and adipocytes. This and other such mols. are likely to provide new insights into the mol. mechanisms that control cellular dedifferentiation and may ultimately be useful to in vivo stem cell biol. and therapy.

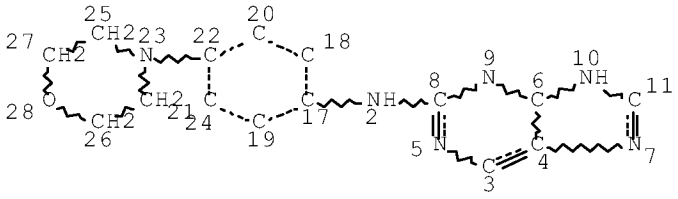
IT 656820-32-5, Reversine
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(dedifferentiation of lineage-committed cells by small mol. reversine)
RN 656820-32-5 HCAPLUS
CN 9H-Purine-2,6-diamine, N6-cyclohexyl-N2-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RESULTS FROM REGISTRY, CAPLUS, AND USPATFULL

=> d que stat l26
L16 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE
L18 131 SEA FILE=REGISTRY SSS FUL L16
L22 15 SEA FILE=REGISTRY ABB=ON L18 AND NR=4 AND NRS=3
L23 3 SEA FILE=REGISTRY ABB=ON L22 AND N=6
L24 1 SEA FILE=HCAPLUS ABB=ON L23
L25 1 SEA FILE=USPATFULL ABB=ON L23
L26 2 DUP REMOV L24 L25 (0 DUPLICATES REMOVED)

=> d ibib abs hitstr l26 1-2

L26 ANSWER 1 OF 2 USPATFULL on STN
ACCESSION NUMBER: 2003:184082 USPATFULL Full-text
TITLE: Purine derivatives inhibitors of tyrosine protein kinase SYK
INVENTOR(S): Collingwood, Stephen Paul, Horsham, UNITED KINGDOM
Hayler, Judy, Horsham, UNITED KINGDOM
Le Grand, Darren Mark, Horsham, UNITED KINGDOM
Mattes, Henri, Brunstatt, FRANCE
Menear, Keith Allan, Horsham, UNITED KINGDOM
Walker, Clive Victor, Horsham, UNITED KINGDOM
Cockcroft, Xiao-Ling, Horsham, UNITED KINGDOM
PATENT ASSIGNEE(S): Novartis AG, Basel, SWITZERLAND (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6589950	B1	20030708	
	WO 2001009134		20010208	
APPLICATION INFO.:	US 2002-48577		20020319	(10)
	WO 2000-EP7311		20000728	

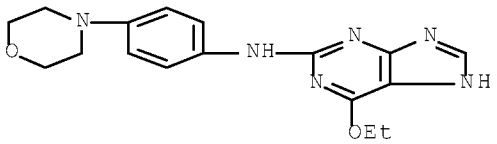
	NUMBER	DATE
PRIORITY INFORMATION:	GB 1999-18035	19990730

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Berch, Mark L.
LEGAL REPRESENTATIVE: Lopez, Gabriel, Dohmann, George R.
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1895
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed are compounds of the formula ##STR1##

in free or salt form, wherein X, R.sup.1, R.sup.2, R.sup.3, and R.sup.4 are as defined in the specification, their preparation and their use as pharmaceuticals, particularly for the treatment of inflammatory or obstructive airways disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 325166-09-4P 325166-51-6P 325166-64-1P
(target compound; preparation of anilinopurine tyrosine protein kinase syk inhibitors by addition of anilines and amines, alcs., or thiols to dichloropurines)
RN 325166-09-4 USPATFULL
CN 9H-Purin-2-amine, 6-ethoxy-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



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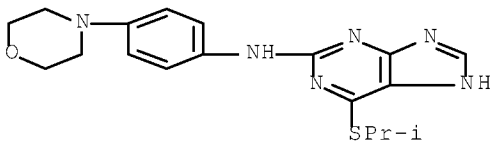

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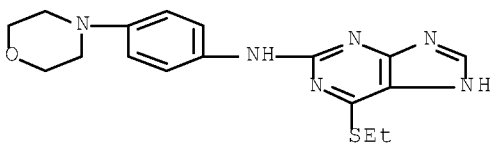

L26 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:101141 HCAPLUS Full-text
DOCUMENT NUMBER: 134:163051
TITLE: Preparation of anilinopurine derivatives as inhibitors of tyrosine protein kinase syk
INVENTOR(S): Collingwood, Stephen Paul; Hayler, Judy; Le Grand, Darren Mark; Mattes, Henri; Menear, Keith Allan; Walker, Clive Victor; Cockcroft, Xiao-ling
PATENT ASSIGNEE(S): Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001009134	A1	20010208	WO 2000-EP7311	20000728
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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PRIORITY APPLN. INFO.:
GB 1999-18035 A 19990730
JP 2001-514337 A3 20000728
WO 2000-EP7311 W 20000728

OTHER SOURCE(S): MARPAT 134:163051

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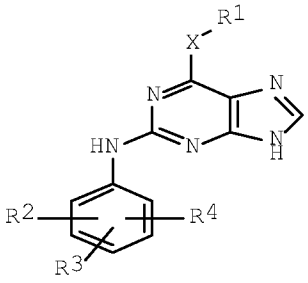

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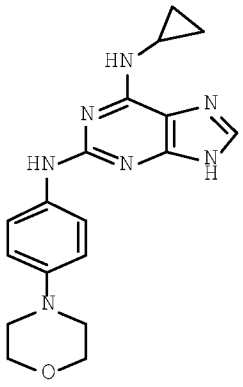
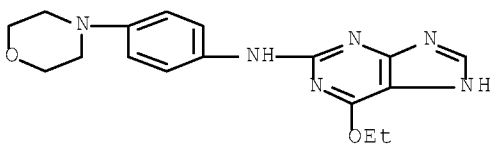


II

AB The title compds. (I) [wherein X = O, S, or NR5; R1 = (un)substituted (cyclo)alkyl, alkenyl, benzocycloalkyl, cycloalkylalkyl, or aralkyl; R2, R3, and R4 = independently H, halo, (halo)alkyl, alkoxy, carboxy, alkoxycarbonyl(alkyl), carboxyalkyl, or (un)substituted amino, sulfamoyl(alkyl), or carbamoyl; or two of R2, R3, and R4 form a carbocyclic or heterocyclic ring together with the C atoms to which they are attached; R5 = H or alkyl] in free or salt form were prepared for use as pharmaceuticals, particularly for the treatment of inflammatory or obstructive airways disease. For example, cyclopropylamine and N,N-diisopropylethylamine were added to 2,6-dichloropurine in n-BuOH to give 6-cyclopropylamino-2-chloropurine. The chloropurine was stirred with 4-morpholinoaniline in the presence of N,N-diisopropylethylamine in NMP at 130°C for 48 h to give II, which inhibited phosphorylation by syk kinase with an IC50 of 9 nM.

IT 325166-09-4P 325166-51-6P 325166-64-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compound; preparation of anilinopurine tyrosine protein kinase syk inhibitors by addition of anilines and amines, alcs., or thiols to dichloropurines)

RN 325166-09-4 HCAPLUS
CN 9H-Purin-2-amine, 6-ethoxy-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



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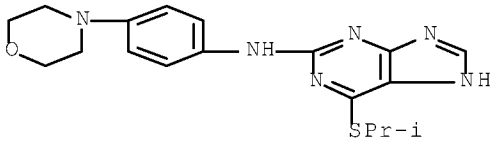

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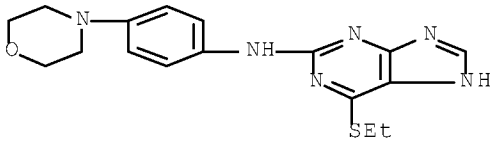

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

SEARCH HISTORY

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L4            5 SEA ABB=ON  L1 AND L2 AND L3
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FILE HCAPLUS

FILE COVERS 1907 - 6 Mar 2009 VOL 150 ISS 11
FILE LAST UPDATED: 5 Mar 2009 (20090305/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 MAR 2009 HIGHEST RN 1116197-74-0
DICTIONARY FILE UPDATES: 5 MAR 2009 HIGHEST RN 1116197-74-0

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http://www.cas.org/support/stngen/stndoc/properties.html

FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 5 Mar 2009 (20090305/PD)
FILE LAST UPDATED: 5 Mar 2009 (20090305/ED)
HIGHEST GRANTED PATENT NUMBER: US7500272
HIGHEST APPLICATION PUBLICATION NUMBER: US20090064384

CA INDEXING IS CURRENT THROUGH 5 Mar 2009 (20090305/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 5 Mar 2009 (20090305/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2008
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2008

USPATFULL now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.